

Leena Abdelrahman

+1 (708) 209 9230 • labde2@illinois.edu
leena-abdelrahman-personal-website-1.leenaabdelrahma.repl.co/
in Leena-Abdelrahman11 • leeabd123

Education

University of Illinois Urbana Champaign, Current Status: Junior
Bachelor of Science in Computer Science
Champaign, IL
Aug 2021 – May 2025

Experience

CodePath SITE (Summer Internship For Tech Excellence) Remote (Oak Lawn, IL)
Full Stack Intern - JavaScript, CSS, HTML, React, SQL, Node/Express June 2023 - Aug 2023 (3 months)

- Selected as one of 10 participants for the highly selective 10-week SITE program in collaboration between CourseHero.
- Immersed in practical learning of full-stack web development, gaining hands-on experience in database management, back-end and front-end code, testing, design, and deployment.
- Experienced comprehensive industry exposure by actively participating in a dynamic production line-style system, engaging in backlog scrumming, sprint creation, and efficient workflow management from input queue to implementation, review, release, and completion. Significantly fostering both personal and professional growth in the field.

Projects

CodePath Capstone Project (Nomadia™ - Travel App) Remote (Oak Lawn, IL)
Full Stack Intern - JavaScript, CSS, HTML, React, SQL, Node/Express July 2023 - Aug 2023 (2 months)

- Independently developed the backend for the website, including the creation of essential endpoints that enhanced API data retrieval efficiency, user experience, and platform capabilities.
- Designed and implemented frontend components, such as the flight page and account page, to provide users with dynamic flight options and a streamlined user account experience.
- Engineered secure user authentication by seamlessly implementing authenticated views, login, and registration endpoints, thereby fortifying the platform's security framework.
- Designed efficient SQL database schema for seamless storage of user information, itineraries, and favorites, enhancing query responsiveness and overall platform performance.

Discover AI - AI4ALL College Pathways Program Champaign, IL
Participant - Machine-Learning, Linear Regression, Python Feb 2023 – May 2023 (4 months)

- Selected to participate in Discover AI, a virtual program offering hands-on experience in Computer Science and AI, addressing ethical issues related to AI deployment, and exploring potential tech careers.
- Developed a machine learning regression model to analyze the correlation between contributing factors (independent variables) and stress level (dependent variable), yielding a linear regression using training data.
- Successfully trained the regression model, facilitating accurate stress level predictions based on contributing factors.

Personal Portfolio Website Champaign, IL
Project - JavaScript, CSS, HTML February 2023 (3 days)

- Crafted a distinctive personal website from the ground up, utilizing HTML and CSS.
- Executed meticulous web design through CSS styling, integrating elements such as background colors, imagery, and textual content, while utilizing flexbox for effective positioning.
- Enhanced user experience by incorporating accessibility features like enlarged font sizes, descriptive 'more info' boxes, and a user-friendly grayscale viewing option.

CS225 - Data Structures (Road Network Project) Champaign, IL
Software Engineer - C++ Team Project November 2022 – December 2022 (2 months)

- Utilizing the City of Oldenburg Road Network dataset, our team sought to answer the key question: What is the optimal route around the City of Oldenburg?
- Researched and chose between three algorithms - Breadth First Search, Betweenness Centrality, and Dijkstra's algorithms - to answer this question.
- Implemented Dijkstra's algorithm to enable users to effortlessly navigate through the city by providing the shortest path to any destination, enhancing convenience and planning capabilities. Created a function that provides all shortest paths from any given road to a source node, complete with corresponding distances, for efficient navigation.

CS 222 - Software Design Lab Champaign, IL
Software Engineer - Machine Learning, JavaScript, HTML September 2022 – December 2022 (4 months)

- Collaborated to develop a website with features assisting users in interpreting handwriting and text.
- Gained fundamental skills in machine learning and TensorFlow through Datalore, creating a machine learning model that interprets handwritten characters using the MNIST dataset.
- Implemented a feature on the website employing Optical Character Recognition, JavaScript, and HTML to read and convert an image to text. This feature can also interpret HTML code, compile it, and provide a user preview.

Awards & Skills

Recognition: Society of Women Engineers STEM Headstart Scholar
Awards: Girls Who Code Pitch Competition Hosted by Salesforce - 1st Place
Knowledge of: UX/UI Design, Machine Learning, Linear Regression, SQL
Software: Java, C++, HTML, CSS, JavaScript, React, Node/Express